

NUVICO®

EASYTRAK™ **CONTROLLER KEYBOARD**



EASYTRAK
PTZ Dome System

CK-1000

*For use with EasyTrak PTZ Dome System Cameras
and NUVICO DVRs.*

INSTRUCTION MANUAL

DISCLAIMER

- While every effort has been made to ensure that the information contained in this guide is accurate and complete, no liability can be accepted for any errors or omissions.
- NUVICO reserves the right to change the specifications of the hardware and software described herein at any time without prior notice.
- No part of this guide may be reproduced, transmitted, transcribed, stored in a retrieval system, or translated into any language in any form, by any means, without prior written permission of NUVICO.
- NUVICO makes no warranties for damages resulting from corrupted or lost data due to a mistaken operation or malfunction of the Camera, peripheral devices, or unapproved/unsupported devices.

WARNING AND CAUTION

WARNING!

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE. DO NOT INSERT ANY METALLIC OBJECTS THROUGH THE VENTILATION GRILLS OR OPENINGS ON THE EQUIPMENT.

CAUTION!



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying the product.

FCC COMPLIANCE STATEMENT

FCC INFORMATION: THIS EQUIPMENT HAS BEEN TESTED AND FOUND TO COMPLY WITH THE LIMITS FOR A CLASS A DIGITAL DEVICE, PURSUANT TO PART 15 OF THE FCC RULES. THESE LIMITS ARE DESIGNED TO PROVIDE REASONABLE PROTECTION AGAINST HARMFUL INTERFERENCE WHEN THE EQUIPMENT IS OPERATED IN A COMMERCIAL ENVIRONMENT. THIS EQUIPMENT GENERATES, USES, AND CAN RADIATE RADIO FREQUENCY ENERGY AND IF NOT INSTALLED AND USED IN ACCORDANCE WITH THE INSTRUCTION MANUAL, MAY CAUSE HARMFUL INTERFERENCE TO RADIO COMMUNICATIONS. OPERATION OF THIS EQUIPMENT IN A RESIDENTIAL AREA IS LIKELY TO CAUSE HARMFUL INTERFERENCE IN WHICH CASE THE USER WILL BE REQUIRED TO CORRECT THE INTERFERENCE AT HIS OWN EXPENSE.

CAUTION: CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

THIS CLASS A DIGITAL EQUIPMENT COMPLIES WITH CANADIAN ICES-003.

CET APPAREIL NUMÉRIQUE DE LA CLASSE A EST CONFORME À LA NORME NMB-003 DU CANADA.

CE COMPLIANCE STATEMENT

WARNING

THIS IS A CLASS A PRODUCT. IN A DOMESTIC ENVIRONMENT THIS PRODUCT MAY CAUSE RADIO INTERFERENCE IN WHICH CASE THE USER MAY BE REQUIRED TO TAKE ADEQUATE MEASURES.

IMPORTANT SAFEGUARDS

1. Read these instructions.
2. Heed all warnings.
3. Follow all instructions.
4. Do not use this equipment near water.
5. Clean only with dry cloth.
6. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
7. Do not install near any heat sources such as radiators, heat registers, stoves, or other equipment (including amplifiers) that produce heat.
8. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
9. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the equipment.
10. Only use attachments/accessories specified by the manufacturer.
11. Unplug this equipment during lightning storms or when unused for long periods of time.
12. Refer all servicing to qualified service personnel. Servicing is required when the equipment has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the equipment, the equipment has been exposed to rain or moisture, does not operate normally, or has been dropped.
13. CAUTION - THESE SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED SERVICE PERSONNEL ONLY. TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS UNLESS YOU ARE QUALIFIED TO DO SO.
14. Use Certified/Listed Class 2 power supply transformer only.

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QUICK START PAGE

1. Controller Keyboard

CK-1000 Vx.xx

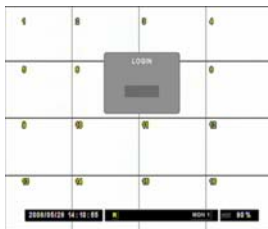
Password :

The Factory Default Password for the Controller Keyboard is "9999".


2. DVR



[EV-Series DVR]



[APEX-Series DVR]

The Factory Default Password for the DVR is "000000". (Six zeros)
You must hold onto  (Shift), and enter number keys when entering password for the DVRs.

1. INTRODUCTION


ABOUT THIS MANUAL

Thank you for purchasing NUVICO product.

The controller is designed to control up to 64 EasyTrak™ PTZ speed dome cameras. (It is expandable up to 255 cameras when in simplex control mode). Rollover key functions make it capable of controlling a variety of external switching devices such as EV / APEX Series Digital Video Recorders.

* Before installing and using this controller keyboard, please read this manual fully and carefully and be sure to keep it handy for later use.

Key Features

- The capability of controlling a camera's panning and tilting movement with variable speed from 0.1°/sec to 90°/sec (64 speed steps). It has capability to manually override the zoom camera's auto focus and auto iris functions. Speed is inversely proportional to the zoom ratio. With  (**Shift**) key pressed, it enables the wide zoom speed mode.
- The ability to define and recall up to 248 **presets**, which are immediate camera call-ups of preset position view, with automatic zoom and focus.
- Program 4 **patterns**, which comprise a sequential series of pan, tilt, zoom, and focus movements from a single camera.
- One define (continuous rotation) with 16 **scans**.
- 8 **tours** consisting of 64 presets, patterns, scans and alternate tours. It is expandable to over 512 functions with nested tours.
- Manual override mode of auto focus or auto iris is switched to Auto Iris/Focus mode by slight movement of the joystick handle.
- Programmable user preferences (alarm, preset, title, etc.).
- Two levels of password, administrator and user, are supported for higher security.
- One Master and multiple slave Keyboards are supported for distributed control.
- DVR system (Max 99) can be controlled remotely.
- Dome cameras' programmed data can be downloaded to non-volatile memory space in the joystick controller for the purpose of transfer to a new dome cameras.

Content Verification

Before installing the controller Keyboard, please make sure that the following items are included in the box:

1. Controller Keyboard
2. 12VDC SMPS Power Transformer
3. Power Cord
4. This Instruction Manual
5. Junction Box: J-Box (Optional)
6. 3m Cable: Data cable (Optional)
7. M4 Self Tapping Screws (Optional)

If any of these materials are missing, please contact your distributor or NUVICO Technical Support for assistance.

2.1 Connection Diagram

2.1.1 Basic Installation Diagram

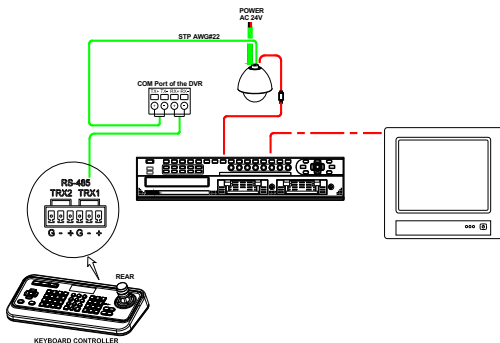


Figure 1 – Basic installation diagram (w/o J-Box)

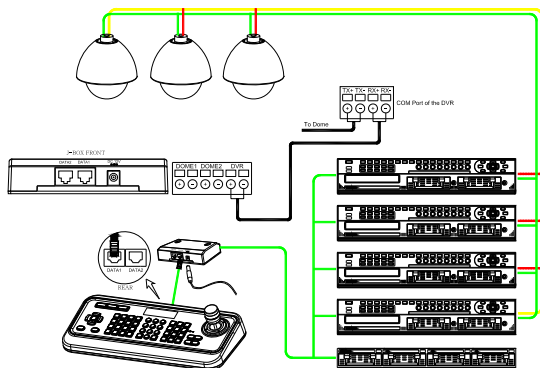


Figure 2 – Basic installation diagram with J-Box

2.1.2 Single DVR Configuration

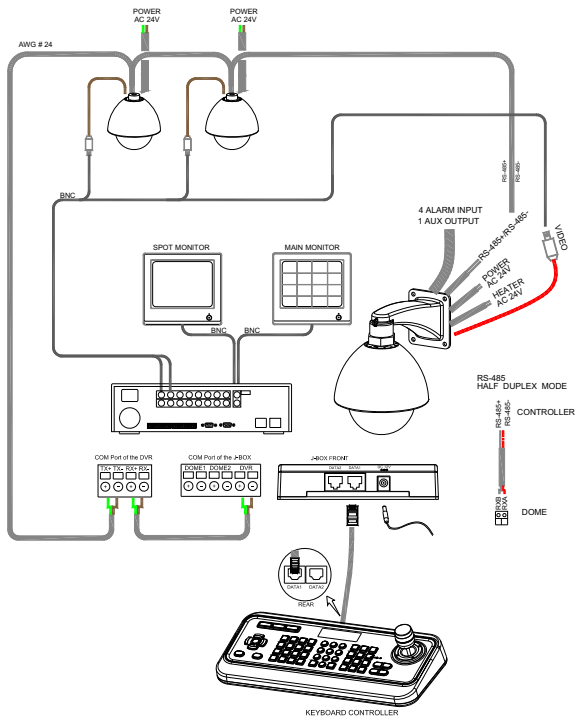


Figure 3 – Single DVR

2.1.3 Single Controller Keyboard with Two DVR Configuration

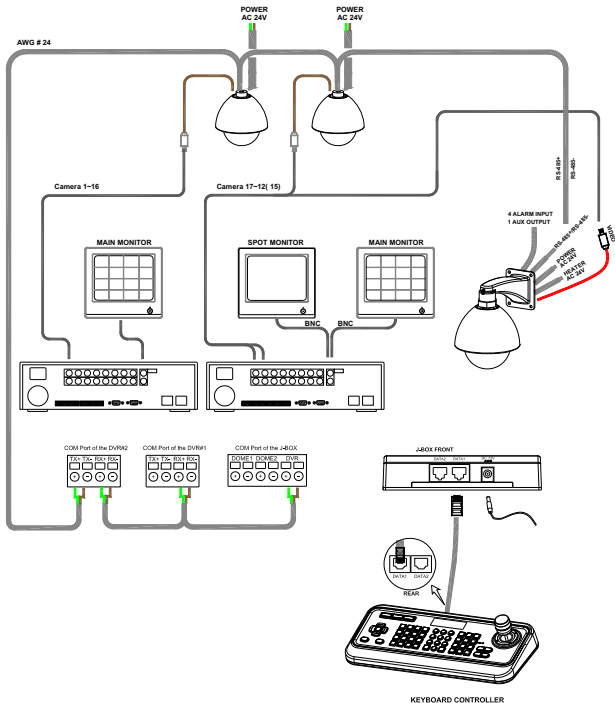


Figure 4 – Two DVR

2.2 Termination & Dip Switch Settings

The first and last devices in an installation (dome and controller keyboard) must have the data line terminated by setting the DIP switch. Without proper termination, there may be control signal errors. Total length of the cable for communication should not exceed 0.74 Mile or 1.2 Kilometer.

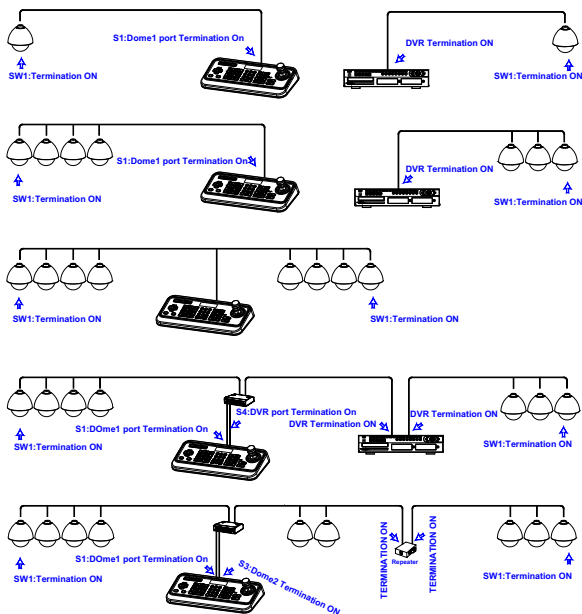


Figure 6 – Termination

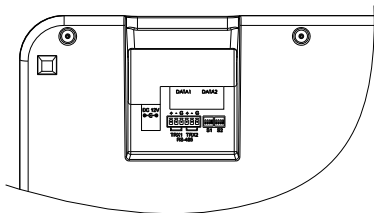


Figure 7 – Rear View of the Keyboard

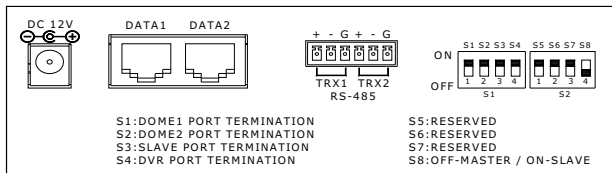


Figure 8 – Termination and Switches

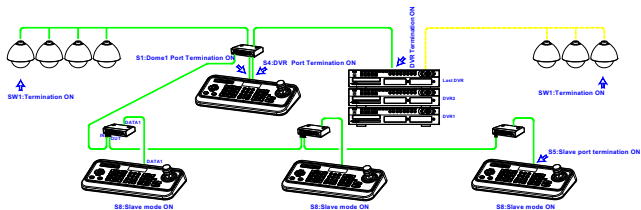







Figure 9 – Termination of Slave controller

3. OPERATION

3.1 Basic Operation

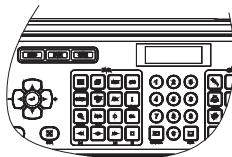
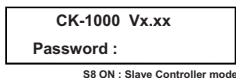
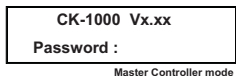
Principal of operation in the programming (editing) mode.

Button or Joystick movement in menu	Function
 Joystick left or right	Go into the sub-menu items. Execute the command(exit) Change value. Navigate through the menu items.
 Joystick up or down	Navigate through the menu items.
 Zoom handle twist	Change value.(Increase / Decrease) Enter editing title mode.
  SHIFT + Joystick	Turbo speed.
ESC	Escape from the menu without change.
Home or Off button	Delete value or name of the field.

3.1.1 Master Controller Mode

As the DIP S/W position 8 OFF, the joystick controller works as master controller. Position 8 ON, controller will work as slave controller.

When the joystick controller is powered on, a password will be required to access the controller keyboard.



Unless you have changed the passwords, the factory default for the administrator's password is 9999+Enter and 1111+Enter for the user-level password.

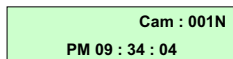
Press **9 9 9 9** and then **↵** consecutively. (**9999**+Enter)

If you have forgotten your password and are no longer able to access the administrative controls to your unit, please contact your distributor or NUVICO Technical Support for assistance.

The controller keyboard will be displayed the following screen and is ready to control dome cameras.

Press **CAMERA** key will get you back to system mode (camera control) from DVR control

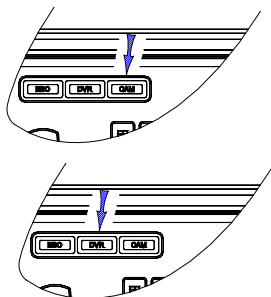
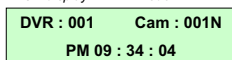
LCD display in System mode



← Camera ID & Time

When you need to control the DVR, press **DVR** key. The LCD screen will be shown following DVR mode.

LCD display in DVR mode



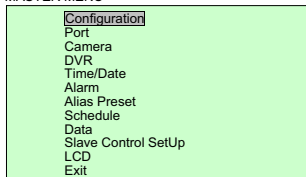
Press **CAMERA** key to go back to the system mode from the DVR control mode.

3.2 Controller Keyboard Configuration

If the user needs to setup the network, change passwords, or perform special tasks such as Uploading and Downloading programmed data from the dome cameras, hold down **[Up]** key, and then press **[Menu]** key (**Shift + Menu**.) You will see the following menu. Joystick Up/Down scrolls menu items, turn the joystick to Right to enter the sub-menu.

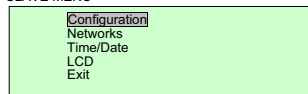
MAIN MENU (**[Up]** + **[Menu]** = **Shift + Menu**)

MASTER MENU



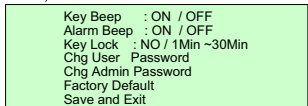
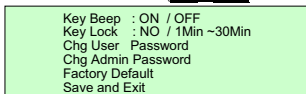
Master Controller mode

SLAVE MENU



Slave Controller Mode (S8 ON)

CONFIGURATION (**Shift + Menu** → CONFIGURATION)



Slave Controller Mode (S8 ON)

- Key Beep: ON - Enable key beep sound
OFF - Disable beep sound.
- Key Lock: 1Min ~ 30Min - After elapsed setup time, keyboard locks automatically.
NO - Disable Auto Key-Lock function.
User needs the login password to operate the Keyboard again.
- User Password: Simple operation (changing setup and programming disabled)
Password: Enter current user's password.
New Password: Enter 1~6 digits new password.
Confirm Password: Confirm 1~6 digits new password.
- Admin Password: Fully accessible menu (changing setup and programming enabled)
Password: Enter current admin password.
New Password: Enter 1~6 digits for new password.
Confirm Password: Confirm 1~6 digits for new password.

Note: Factory default Administrator's password is 9999+Enter and user password is 1111+Enter.

- Factory Default: This function is used to reset the controller keyboard to the factory default setting. It will erase all data and programming.
- Save and Exit: Save the programmed data and return to the previous Menu
(To exit without saving, press **ESC** key)

PORT (**Shift** + **Menu**) → PORT)

Dome1
Dome2
Slave
DVR
Alarm
Exit

Master Controller mode

NETWORKS (**Shift** + **Menu**) → NETWORKS)

Slave ID : 1
Baud rate : 9600
Save and Exit

Slave Controller Mode (S8 ON)

Dome1 (**Shift** + **Menu**) → PORT → Dome1)

Device : Camera / DVR / None
Baud Rate : 9600 / 2400~230K
Save and Exit

Device: Select Device to be controlled (Camera / DVR / None)

Baud Rate: Communication speed (2400/ 4800/ **9600**/19200/ 38400/ 57600/ 11.5K /230K)

Save and Exit, Press **ESC** key to exit without saving the data.

Dome2 (**Shift** + **Menu**) → PORT → Dome2)

Device : Camera / AUX IN
/ AUX I/O / None
Baud Rate : 9600 / 2400~230K
Save and Exit

Device: Select Device to be controlled (Camera / AUX IN / AUX I/O / None)

Baud Rate: Communication speed (2400/ 4800/ **9600**/19200/ 38400/ 57600/ 11.5K /230K)

Save and Exit, Press **ESC** key to exit without saving the data.

Slave (**Shift** + **Menu**) → PORT → Slave)

Device : Controller / None
Baud Rate : 9600 / 2400~230K
Save and Exit

Device: Select Device to be controlled (**Controller** / None)
Baud Rate: Communication speed (2400/ 4800/ **9600**/19200/ 38400/ 57600/ 11.5K /230K)
Save and Exit, Press **ESC** key to exit without saving the data.

DVR SETUP MENU (**Shift** + **Menu**) → PORT → DVR)

Device : DVR / Alarm / AUX IN
/ AUX I/O / None
Baud Rate : 9600 / 2400~230K
Save and Exit

Device: Select Device to be controlled (**DVR** / Alarm / AUX IN / AUX I/O / None)
Baud Rate: Communication speed (2400/ 4800/ **9600**/19200/ 38400/ 57600/ 11.5K /230K)
Save and Exit, Press **ESC** key to exit without saving the data.

ALARM SETUP MENU (**Shift** + **Menu**) → PORT → ALARM)

Device : DVR / Alarm / AUX IN
/ AUX I/O / None
Baud Rate : 9600 / 2400~230K
Save and Exit

Device: Select Device to be controlled (**DVR** / Alarm / AUX IN / AUX IO / None)
Baud Rate: Communication speed (2400/ 4800/ **9600**/19200/ 38400/ 57600/ 11.5K /230K)
Save and Exit, Press **ESC** key to exit without saving the data.

CAMERA SETUP MENU (**Shift** + **Menu**) → Camera)

Dome Scan
Camera Configuration
Exit

Dome Scan option detects the specific protocols of all dome cameras on the Dome1, Dome2 ports.

DOME RESCAN MODE

Dome Rescan ?
YES (Enter) / No (ESC)

Specific protocols detected by previous option will be filled automatically as below example

ID	PR	PT	BR	AL
0001	NC	P1	9600	ON
----	NC	P1	9600	OFF
SHIFT : save				p:001

Press **No** key or twist zoom handle on the first column to enter setup mode.

ID: Assign the Dome (PTZ Camera) address.

PR: Select the protocol. (NC: NUVICO, P_D: Pelco D, P_P: Pelco P)

PT: Select the Port number of Controller Keyboard (P1: TRX#1 / Dome 1, P2: TRX#2 / Dome 2)

BR: Baud rate. (It is determined by PORT MENU.)

AL: Select alarm option for communication fail. (ON: Enable/Simplex, NO: Disable/Half-duplex).

Press **OFF** key to delete the dome ID. **Shift** key to save & exit.

Press **ESC** key to exit without saving.

Time/Date (**Shift** + **Menu**) → Time/Date)

Display : ON / OFF
Date : Asia / US/ EURO 2005/JAN /18
Time : 12 / 24 08: 59 : 04
Day Light Saving : ON/ OFF
Day Light Saving
Save and Exit

Day Light Saving (**Shift** + **Menu**) → Time/Date → Day Light Saving)

Date	Time
Start : 01 / 01	00 : 00
Stop : 01 / 01	00 : 00
Save and Exit	

Select Day Light Saving option, program the start and end Date.

Turn the joystick to Right/Left to select options and twist the zoom handle to increase/decrease the date and time.

Alarm Menu (**Shift** + **Menu**) → Alarm)

Alarm Beep	: ON / OFF
Alarm Dwell	: OFF / 3sec~200sec
Alarm Action	
Alarm History	
Save and Exit	

Alarm Beep: Enable or disable the beep sound when there is alarm activated.

Alarm Dwell: Instant alarm will be extended until programmed time.

Alarm Action (**Shift** + **Menu**) → Alarm → Alarm Action)

DOME	Alarm	OUT	Ali
0001	1 2 3 4 5 6 7 8	001	999
---	- -	-	-
ON : ins		page: 001	

DOME: ID of the dome to be programmed.

Ex) 0001

Alarm: 8 Alarm input of dome.

OUT: 001 Alarm output number.

Alias: 999 alias presets. See Alias Preset menu.

If there is an alarm from the programmed dome, signal can be sent out to one of 999 external dry contact outputs.

Also, in conjunction with the alarm, multiple dome presets will be called if programmed.

500 alarm schedules can be stored in this joystick controller.

Turn Up/Down the joystick will scroll previous/next page on the first/last row.

Twisting the zoom handle on the camera ID field to enter program mode and select ID. Rotating the handle, the programmed IDs (programmed in camera setup menu) will be scrolled.

Turn the joystick to the right to setup alarm field. Activate or deactivate specific alarm inputs by rotating the zoom handle. And then program the rest of the part (Alarm input, Output and Alias)

Alarm History (**Shift** + **Menu**) → Alarm → Alarm History)

CAM	Alarm	Date	Time
0001	com.	06SEP10	1306
---	-----	-----	-----
OFF : Clear		page : 0001	

This screen shows up to 500 of the most recent alarms activations.

Alias Preset Menu (**Shift** + **Menu**) → Alias Preset)

No.	Dome ID
0001 : 0001	0003 0004
---	---
ALRM : exe.	Page : 001

This screen allows you to set the Controller's internal alias preset, each alias preset can have 3 dome camera's position.

This Programmed data is saved at the Controller's memory.

Alias preset can be saved up to 999.

Schedule Setup (**Shift** + **Menu**) → Schedule)



Night Shot
Exit

Turn down the joystick until **Schedule** menu appears

Turn the joystick to the right to enter the SCHEDULE setup menu.

Night Shot Setup (**Shift** + **Menu**) → Schedule → Night Shot)

Night Shot : OFF / ON
On Time : 00 00
Off Time : 00 00
Save and Exit

Night shot option is enabled/disabled (ON) by 
On time and Off Time can be configured using .

Night Shot Enable Option changes low light sensitivity by removing IR cut filter from the camera lens.
If the option is enabled, the controller sends the same control command to all the cameras attached on the control line.

Data (**Shift** + **Menu**) → Data)

ID Saved Date
Data Bank : --- -- --
Exit

Turn Push down the joystick until

DATA menu appears

Push the joystick to the right to enter the DATA setup menu.

Slave Controller Setup (**Shift** + **Menu**) → Slave Control Setup)

No. of Controller : 00/01~08
D Hold Time : 1~200sec ,Infinity
DVR Control : Enable / Disable
DMenu Control : Enable / Disable
Save and Exit

Push down the joystick until **SLAVE**

CONTROLLER SETUP menu appears

Push the joystick to the right to enter the SLAVE CONTROLLER setup menu.

No. of Controller: 1~8 – Total No. of slave controllers
Dome Holding Time: Master controller holds dome control as programmed time
DVR Control: Allow DVR control in the Slave controller.
Dome Menu Access: Allow camera menu in the Slave controller.

LCD (**Shift** + **Menu**) → LCD)

Bright : 10 / 01~22
Save and Exit

Adjust the brightness of the picture.
Available options are 1 through 22.

4. ADVANCED OPERATION

4.1 Selection of the Camera (ID of the Camera)



There are three ways for dome camera selection  and  (Next) or  (Prev). With these selections, the keyboard controller has the full control of the selected dome camera.

4.2 Selection of the DVR (ID of the DVR)

A DVR must be selected before being controlled by the joystick controller.

Press Numeric button, then press  button to change DVR ID to be controlled.


















<Ex 1> Select DVR ID #3

Press numeric  then  button on the controller, DVR-003 will be displayed on the LCD window.

<Ex 2> Select DVR ID # 73

Press  and  then  button, DVR-073 will be displayed on the LCD window.













4.3 Key Description of the Controller

Function	Key Buttons	Description
Numeric	 .  - 	Camera ID selection with CAM SEL key. Function number selection with function keys. (e.g., 1+CAM SEL, 3+Tour, 5+Scan, 6+Prst)
CAM SEL		Select camera ID (address).
ESC		Exits from currently running functions or menu, error status, etc.
Alarm		Disregards all currently activated alarms and turns off the beep temporarily. If alarm is activated again within the programmed hold time, the timer will restart and beep again.
ON		Relay No. 1~4+ ON will activate the selected relay.
OFF		Relay No. 1~4+ OFF will disable the selected relay.
Home		Immediately calls Home function.
Preset		Deletes selected value or function in programming mode. Pressing Preset will bring up the preset programming menu. Recalls preset; e.g., 1, 2... 31... 240 +  (Preset) In the preset or tour programming mode, the operator can review the existing preset (selected by cursor) by pressing this key.
Tour		Pressing Tour will bring up the tour programming menu directly. Recalls programmed presets or functions sequentially. Ex) 1 ~ 8+  (Tour)
Pattern		Pressing Pattern will bring up the pattern programming menu directly. Repeats the selected pattern of the current dome camera. Ex) 1 ~ 4+  (Pattern)
Auto Scan		Pressing Scan will bring up the Auto Scan programming menu. Calls Auto panning function. ex) 2+  (Scan) -- repeats Auto Scan 2.

Menu		Enter the dome programming menu. Shift+Menu will invoke Keyboard set up menu
Shift		No.+Shift+Preset will store current view as a preset directly. No.+Shift+Tour will open programming menu No.+Shift+Scan will open programming menu Shift+Joystick : In a programming mode (Preset, Pattern, Scan, Privacy....) the joystick operates as if in the normal control mode. While pressing and holding down the Shift key, all movements of the joystick will start recording when in the pattern programming menu. Shift+Joystick : In normal operation mode, manual speed of the joystick control will be operated in wide zoom mode.
Enter		Completes entering data for the password or title ENTER+Joystick : Direction key in DVR remote mode or Mux (PTZ, Mouse, Cursor)
Manual Focus		Overrides auto focus. Return to Auto Focus mode by moving the joystick.
Manual Iris		Overrides auto iris. Moving the joystick reactivates Auto Iris mode.
Turbo Speed		Once the turbo key is pressed, manual control speed will go up-to 360°/sec. To go back to normal speed, press the key one more. It is a toggle key.
Joystick		Pan, Tilt, Zoom controls in normal control mode. Navigate the menu items and increase/decrease the value in program mode.

4.4 Keys for DVR

Function	Key Buttons	Description
DVR		DVR ID Selection. (e.g.:1 or 2+DVR).
Play/Reverse Play		Play recorded data / Reverse playing.
Rewind / Step Rewind		Play video backwards at high speed. Pressing the button again toggles the playback speed from to and . Shift+Rewind: Step Rewind
Fast Forward		Play video forward at high speed. Pressing the button again toggles the playback speed from to and . Shift+Forward: Step Forward
Stop/Pause		Stop recording or playback. Shift+Stop: Pause playback.
Record		Start recording, Shift+REC: Start schedule recording
Menu		DVR Menu
Display Mode		Toggle between different display formats.
MON		This button is used to select different monitors to control.
Full		Camera No. 1~16+Main will display the selected camera full screen
SEQ		This button is used to activate camera sequencing. Shift+SEQ: to activate user sequence mode.

Lock		This button is used to lock the buttons on the front panel/remote controller by logging off. Press it again and then apply appropriate password to deactivate the functions.
OSD		This button is used to change on screen display.
Search		This button accesses the search menu.
Backup		This button is used to open the backup MENU.
ACK		This button is used to manually turn off alarm relay and buzzer when set for unlimited duration.
Panic		This button is used to manually turn on/off Panic recording mode. It can be manually configured in Quick Setup menu.
Zoom		This button is used to digitally zoom into a specific area in live screen. Use directional buttons to navigate.
Info / Log	 	The information screen displays the basic information about the DVR. The logs can be used to search and review directly to a point in time of the recorded data.
SEL		This button is used to select a camera for PTZ control in multi display mode at the DVR.
Down / Up / Left / Right		Navigate the menu items and increase/decrease the value in program mode. Control the PTZ camera.
Enter		This button is used on the menu of the DVR.

5. SPECIFICATION

Power Consumption	12VDC, 500mA
Communication	2 RS-485, RS-232C
Baud Rates	2,400 ~ Up to 230,000 bps
Joystick	3-Axis
Slave Keyboard Support	1 Master, 7 Slave
User Login	Admin / User
Operating Temperature	0°C to 50°C (32°F to 140°F)
Humidity	0 to 90%RH (non-condensing)
Storage temperature	-20°C to 60°C (-40°F to 122°F)
Dimension (mm)	410x185x113 (16.1" x 7.3" x 4.4")
Weight	1.0kg
Control	Dome Connection : Max 64 (simplex 256) DVR Connection : Max 99

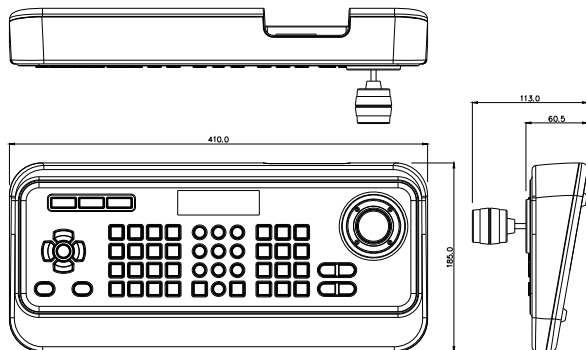


Figure 10 – Dimension

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